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[PDF] **Deadlock detection** for distributed process networks — psu.edu [PDF]

AG Olson, BL Evans - Proc. ICASSP - Citeseer

... are any tokens en route (or untransmitted) to any blocked process, the system is not necessarily **deadlocked**. ... [14] KM Chandy, J. Misra, and LM Hass., "Distributed **deadlock** de- tection ... [15] DP Mitchell and MJ Merritt, "A distributed algorithm for **dead- lock detection** and resolution ...

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[PDF] Artificial **deadlock detection** and **correction** in bounded scheduling of ... — psu.edu [PDF]

B Vaidyanathan - uT Austin EE 382C-9 Embedded Software Systems ..., 1999 - Citeseer

... It implements Parks bounded scheduling and handles **detection** of artificial **deadlock**. However, it employs a separate Java thread that handles the **deadlocks** and resolves them as soon as they arise ... checks for artificial **deadlock**. D ESIGN AND I MPLEMENTATION ...

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[PDF] Fast Concurrent Simulation Using the Time Warp Mechanism. Part I. Local ... — rand.org [PDF]

D Jefferson, H Sowizral - 1982 - rand.org

... are becoming increasingly available, this approach should be practical in the **near** future. ... unusual feature is the use of rollback and antimessages to automatically **correct** the temporal ... o The Time Warp mechanism cannot **deadlock**, and it always progresses forward in simulation ...

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[PDF] A distributed **deadlock detection** and resolution algorithm for process ... — psu.edu [PDF]

G Allen, P Zucknick, B Evans - ... Conference on Acoustics, Speech and Signal ... - Citeseer

... Geilen and Basten also showed [9] that a dynamic **dead- lock** detector should detect local **deadlocks**, not only global ones as proposed by Parks. ... If a dependency chain is cyclic it indicates a local **deadlock**, and no further progress can be made without external resolution ...

Cited by 3 - Related articles - View as HTML - All 8 versions

An external state management system for optimistic parallel simulation

BW Unger, JG Cleary, A Covington, D ... - Proceedings of the 25th ..., 1993 - portal.acm.org

... **detection** and **correction** for not having to perform **deadlock** avoidance or **deadlock detection** and recovery (as required in conservative systems). ... data structures are associated with each

process: an input **queue**, an output **queue**, and a state **queue**. ...
Cited by 27 - Related articles - BL Direct - All 3 versions

[PDF] A Study on Process Networks — psu.edu [PDF]
B Vaidyanathan - Citeseer
... 8 simultaneously. If the program is unbounded, execution repeatedly stops due to artificial **deadlock**, and we **increase** the **queue** size repeatedly without limit. This ... artificial **deadlock detection** and **correction** in T. Parks's bounded scheduling of process networks model. ...
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Virtual time — psu.edu [PDF]
DR Jefferson - ACM Transactions on Programming Languages and ..., 1985 - portal.acm.org
... There is no **deadlock**, starvation, or any other corresponding hazard when virtual time is implemented by the Time Warp ... concerned with making sure that events are executed and messages received in **correct** order (providing a "weakly **correct**" implementation ... **detection** (all ...
Cited by 1723 - Related articles - All 17 versions

Parallel discrete event simulation — hcmut.edu.vn [PDF]
RM Fujimoto - Proceedings of the 21st conference on Winter ..., 1989 - portal.acm.org
... that one computation must pre- cede the other for the computation to be **correct**. ... small clock values, each process in that cycle must block, and tile simulation **deadlocks**. ... completed to evaluate the performance of the **deadlock** avoidance and **deadlock detection** and recovery ...
Cited by 1529 - Related articles - BL Direct - All 9 versions

A provably **correct**, non-deadlocking parallel event simulation algorithm — debenedictis.org [PDF]
ML Yu, S Ghosh, E DeBenedictis - ... of the 24th annual symposium on ..., 1991 - portal.acm.org
A Provably **Correct**, Non-Deadlocking Parallel Event Simulation Algorithm ... state yet the non-oscillatory components of the system cannot execute due to local **deadlocks**. Besides, the potentially very high overhead for **deadlock detection** and recovery limits its applications. ...
Cited by 4 - Related articles - All 6 versions

A New Look at Timestamp Ordering Concurrency Control
R Srinivasa, C Williams, PF Reynolds - Lecture notes in computer ..., 2001 - Springer
... Note that ZC guarantees a **correct** execution only in the absence of data contention. ... as well as global **deadlock detection** using waits-for graphs, but the cost of **deadlock detection** is set to ... The percentage of restarts in 2PL is much lower than that in BTO, since **deadlocks** are not ...
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Congestion control for cell networks

LA Bustini, PD Daley, CM Corbalis - US Patent 5,313,454, 1994 - Google Patents

... By monitoring the buffer **queue** lengths at the nodes, a **control** signal can be generated at each intermediate node indicating the state of **congestion**. Excess **queue** length indicates incipient **congestion** while short **queue** lengths indicate excess capacity. ...

Cited by 187 - Related articles - All 6 versions

[PDF] End-to-end **congestion control** for high performance data transfer psu.edu [PDF]

Y Gu, RL Grossman - submitted to IEEE/ACM Transaction on Networking - Citeseer

... The pattern of **data flow** over these high speed wide area networks, or high bandwidth-delay product (BDP) networks ... Given a practical value of RTT of the longest link can have in the **near** future, which ... steady state, whereas flow **control** can help to reduce loss during **congestion**. ...

Cited by 6 - Related articles - View as HTML - All 4 versions

[PDF] Prediction of performance and processor requirements in real-time **data flow** ... scilib.kiev.ua [PDF]

S Som, RR Mielke, JW Stoughton - IEEE Transactions on Parallel ..., 1993 - scilib.kiev.ua

... In this way, it is possible to **increase** the **token** count on directed loops formed Page 7. SOM ef al.:PERFORMANCE AND PROCESSOR REQUIREMENTS IN REAL-TIME **DATA FLOW** ARCHITECTURES 1211 t=3 Fig. 12. Example AMG of Fig. 4 with **control** arc added ...

Cited by 4 - Related articles - View as HTML - All 7 versions

[BOOK] Network **congestion control** itks-training.com [PDF]

M Welzl - 2005 - itks-training.com

... 12 2.3 **Data flow** in node 2 . . . . . 12 2.4 Vector diagrams showing trajectories of AIAD ... 188 5.3 Leaky bucket and **token** bucket . ... Recommended alternative: Rayadurgam Srikant, 'The Mathematics of Internet Con- gestion **Control**', Springer Verlag 2004 ...

Cited by 46 - Related articles - View as HTML - All 15 versions

... and method for traffic shaping based on generalized **congestion** and flow **control**

M Freed, S Amara, M Borella - US Patent 7,088,678, 2006 - Google Patents

... 28, 1980, pp. 1-3. RFC 793, Transmission **Control** Protocol, DARPA Internet Program Protocol Specification, Sep. ... 2655-2658. "A Solution for the Priority **Queue** Problem of ... li to 196. Ramakrishnan, K, A Proposal to Add Explicit **Congestion** Notification (ECN) to IP, RFC 2481, ...

Cited by 2 - Related articles - All 2 versions

[PDF] Rate adaptation, **congestion control** and fairness: A tutorial — psu.edu [PDF]

JY Le Boudec - Web page, November, 2005 - Citeseer

... For a given source s, the set of links l such that A l,s > 0 is the path followed by the **data flow** with source s. In the simplest case (no ... **CONGESTION CONTROL** FOR BEST EFFORT: THEORY ... For some source s, let us try to **increase** the rate x s while keeping the allocation feasible. ...

Cited by 85 - Related articles - View as HTML - All 19 versions

[BOOK] **Congestion** and error **control** in overlay networks — psu.edu [PDF]

D Constantinescu, D Erman, D Ilie, A Popescu - Citeseer

... 21 2.3.4 Error **Detection** . . . . 22 2.3.6 Forward Error **Correction** . . . . 8 Page 17. 2.2. **Congestion Control** Mechanisms Table 2.1: Evolution during Slow-Start phase. Packet cwnd Packet(s) **Queue** ...

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Hop-by-hop **congestion control** over a wireless multi-hop network — psu.edu [PDF]

Y Yi, S Shakkottai - IEEE/ACM Transactions on Networking (TON), 2007 - portal.acm.org

... The authors develop a **token**-based local scheduling policy at each node to ensure ... Each **data flow** in the network corresponds to an ordered sequence of links , and ... YI AND SHAKKOTTAI: HOP-BY-HOP **CONGESTION CONTROL** OVER A WIRELESS MULTI-HOP NETWORK ...

Cited by 193 - Related articles - BL Direct - All 18 versions

[PDF] Scheduling algorithms in broad-band wireless networks — nctu.edu.tw [PDF]

Y Cao, VOK Li - PROCEEDINGS-IEEE, 2001 - wise.cm.nctu.edu.tw

... **control** and **congestion control** policies are all dependent on the specific scheduling disciplines used. ... knowledge on wireless links and a perfect multiple-access **control** (MAC) protocol, IWFQ works as ... An LTFS is a special **data flow** created for compensating flows whose packet ...

Cited by 261 - Related articles - View as HTML - BL Direct - All 6 versions

Traffic **congestion**

S Haumont - US Patent App. 10/450,960, 2003 - Google Patents

... buffers for storing received data before it is distributed further in the direction of **data flow**. ... SGSN 14 keeps track of the mobile stations location and performs security functions and access **control**. ... is conformant with maxi- mum bitrate as long as it follows a **token** bucket algorithm ...

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